Dipeptide diaminobutyroyl benzylamide diacetate

INCI name:	**Dipeptide diaminobutyroyl benzylamide diacetate**
Peptide Sequence:	H-ß-Ala-Pro-Dab-NH-Bzl
Molecular Formula:	$C_{19}H_{29}N_5O_3$
Molecular weight:	375.71
Cas No.	823202-99-9
Application:	Cosmetics – anti-wrinkle / wrinkle-smoothing
Packaging:	bottle
Filling quantity:	1 g / bottle 5 g / bottle 10 g / bottle 100 g / bottle special packaging upon request
Storage and Shelf life:	2 - 8 °C, dark and clean shelf life 24 months.

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Kosmetik-Rohstoffe von Experten

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Product Spezification

Dipeptide diaminobutyroyl benzylamide diacetate

Manufacturing date: 18.12.2017 Expiry date: 17.12.2019

Test	Specification	Batch No. 20171218
Appearance	white powder	conforms
Identity	375.48 ± 1	375.3
Solubility	≥ 100 mg/ml (H_2O)	conforms
Amino acid composition	± 10 % of theoretical	conforms
Peptide purity (by HPLC)	≥ 95.0 % by area integration	98.13 %
Water content (Karl Fischer)	≤ 8.0 %	3.85 %
Acetate content	≤ 25.0 %	24.36 %

Characteristics

Dipeptide diaminobutyroyl benzylamide diacetate is an anti-wrinkle active compound based on a synthetic tripeptide that mimics the effect of Waglerin 1, found in the venom of the Temple Viper. It`s effect focus on an immediate and lasting relaxation of mimicry wrinkle by blocking the neuronal transmission on the nicotinic acetylcholine membrane`s receptor (mnAchR). As the muscular nicotinic Ach receptors are blocked, the ion channel remains closed. There is no uptake of Na^+ and the muscle cells stay relaxed. The transmission of nerve impulses to the muscles is inhibited and facial muscles are relaxed.

Use level: 4 % dilution

Cosmetic benefits

The frequency of muscle contraction is reduced only after 2 minutes treatment. In vivo testing showed an impressive reduction of over 50 % in wrinkle size after 28 days.

- Helps reduce wrinkles and laughter lines.
- Age-defying products particularly effective against expression lines.
- Intensive wrinkle-smoothing products.